

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480754

Luminaire Tested: **IFLD-M-SA4E-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480754
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

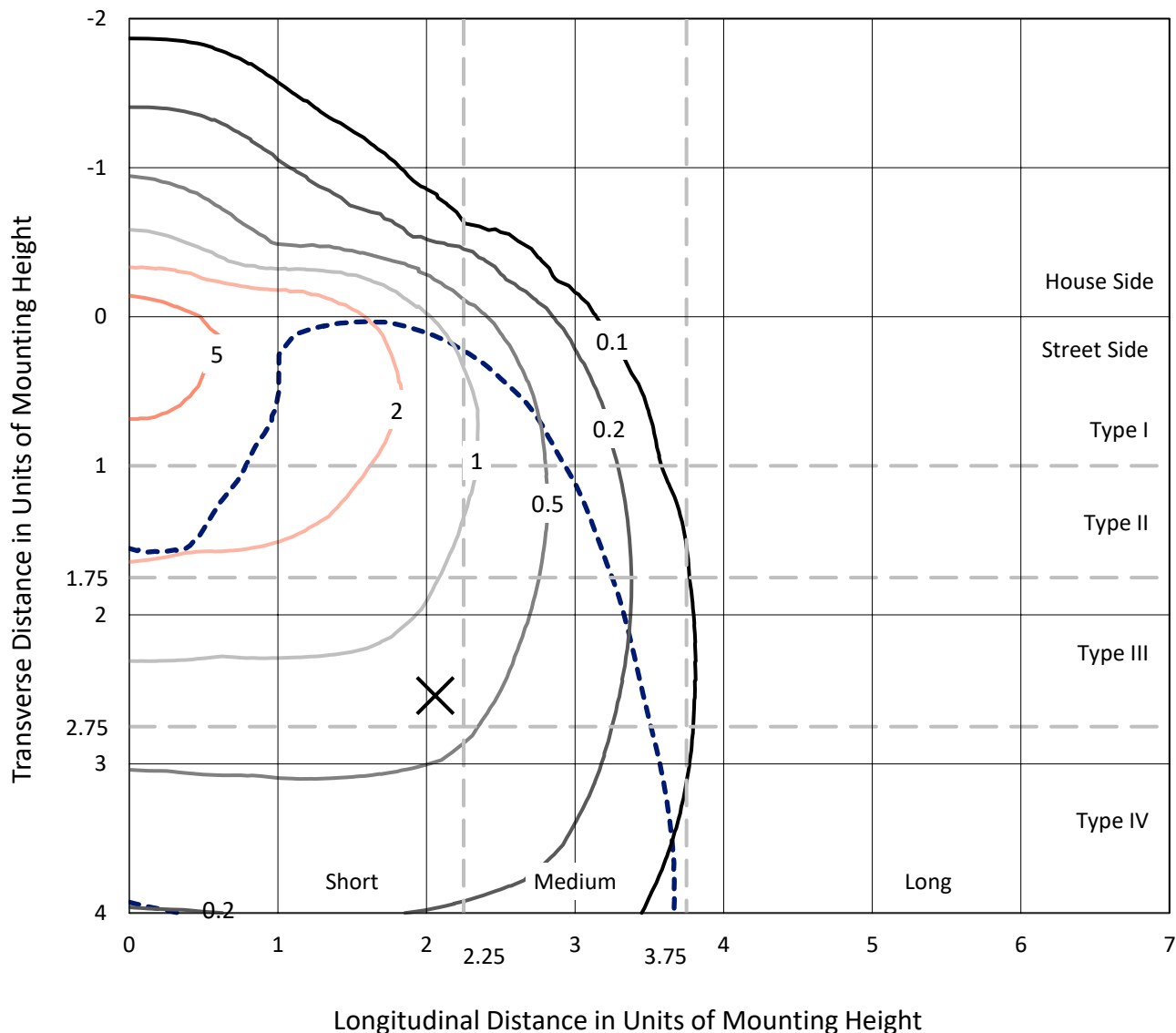
Lumens per Lamp: N/A
Luminaire Lumens: 25795.7 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

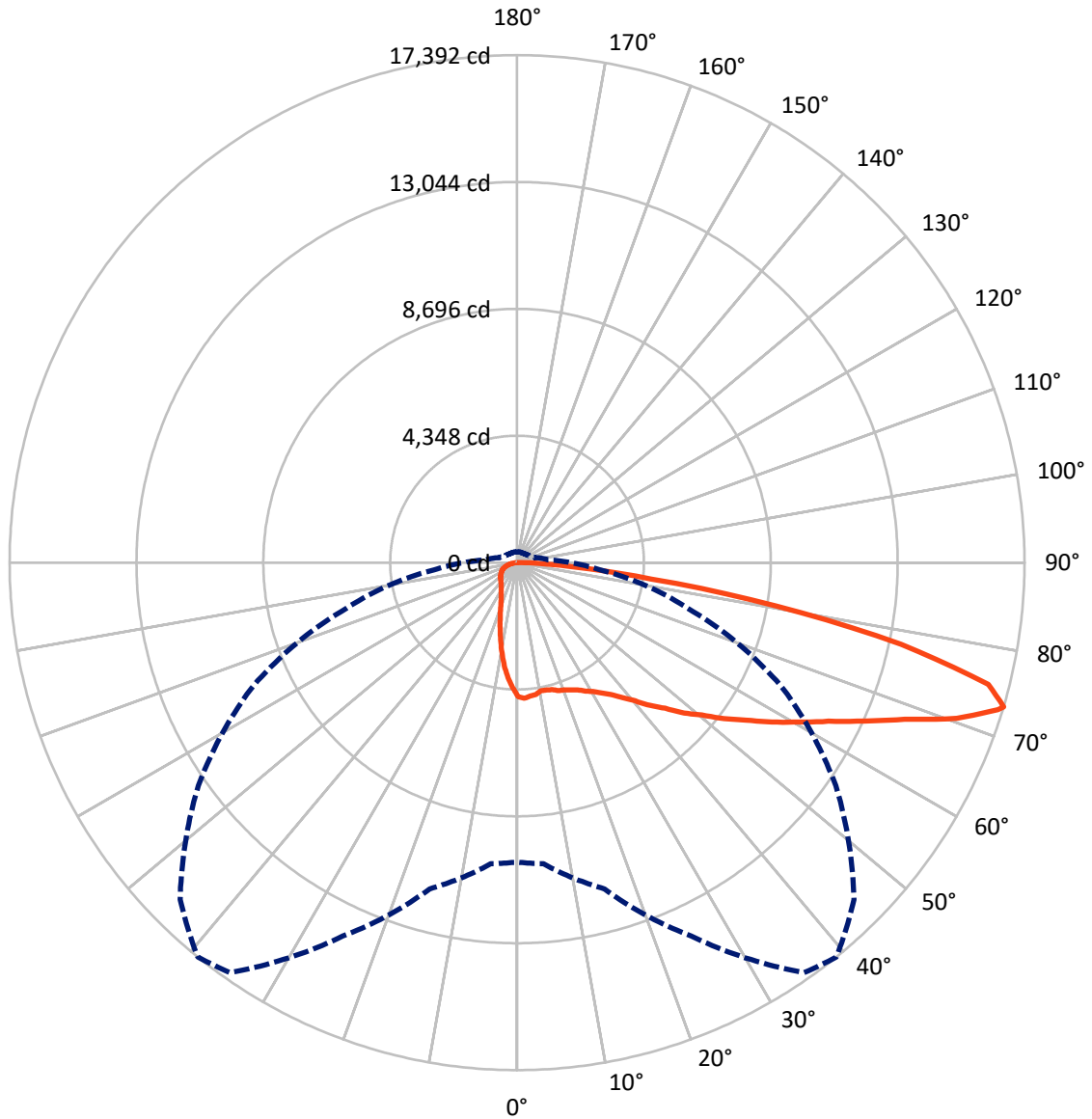
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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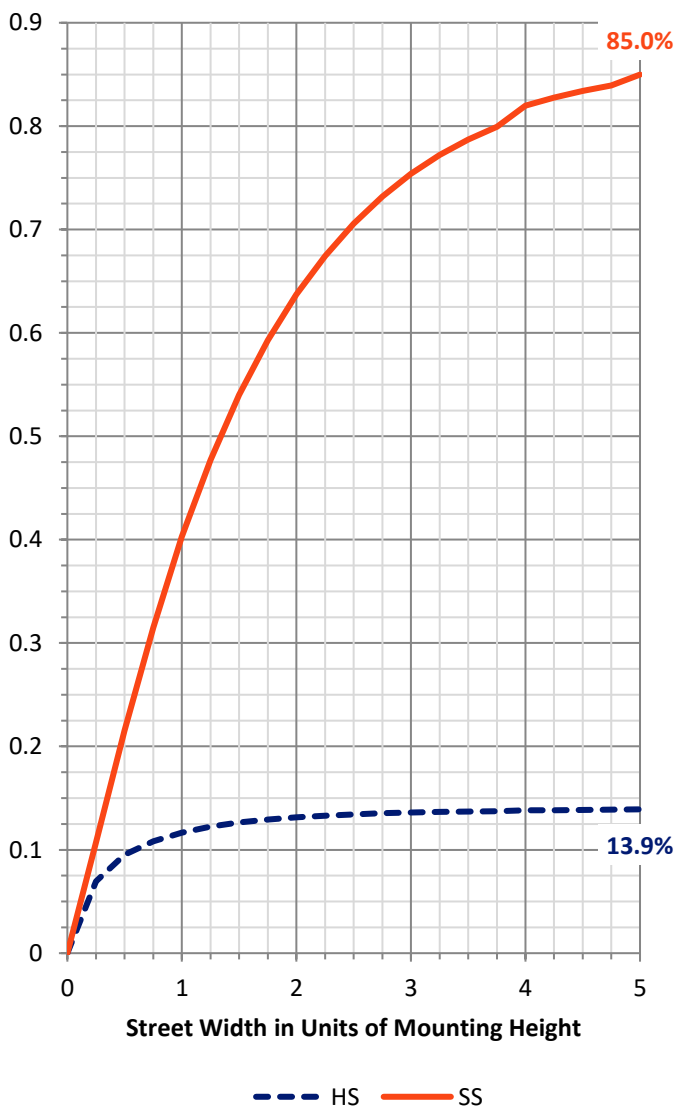
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3626.1	0.0	3626.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22169.6	0.0	22169.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	25795.7	0.0	25795.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.6	1.5
10°-20°	1013.3	3.9
20°-30°	1548.4	6.0
30°-40°	2257.7	8.8
40°-50°	3411.6	13.2
50°-60°	4940.2	19.2
60°-70°	6276.7	24.3
70°-80°	5088.3	19.7
80°-90°	860.9	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25795.7	100.0
0°-180°	25795.7	100.0

Coefficient of Utilization



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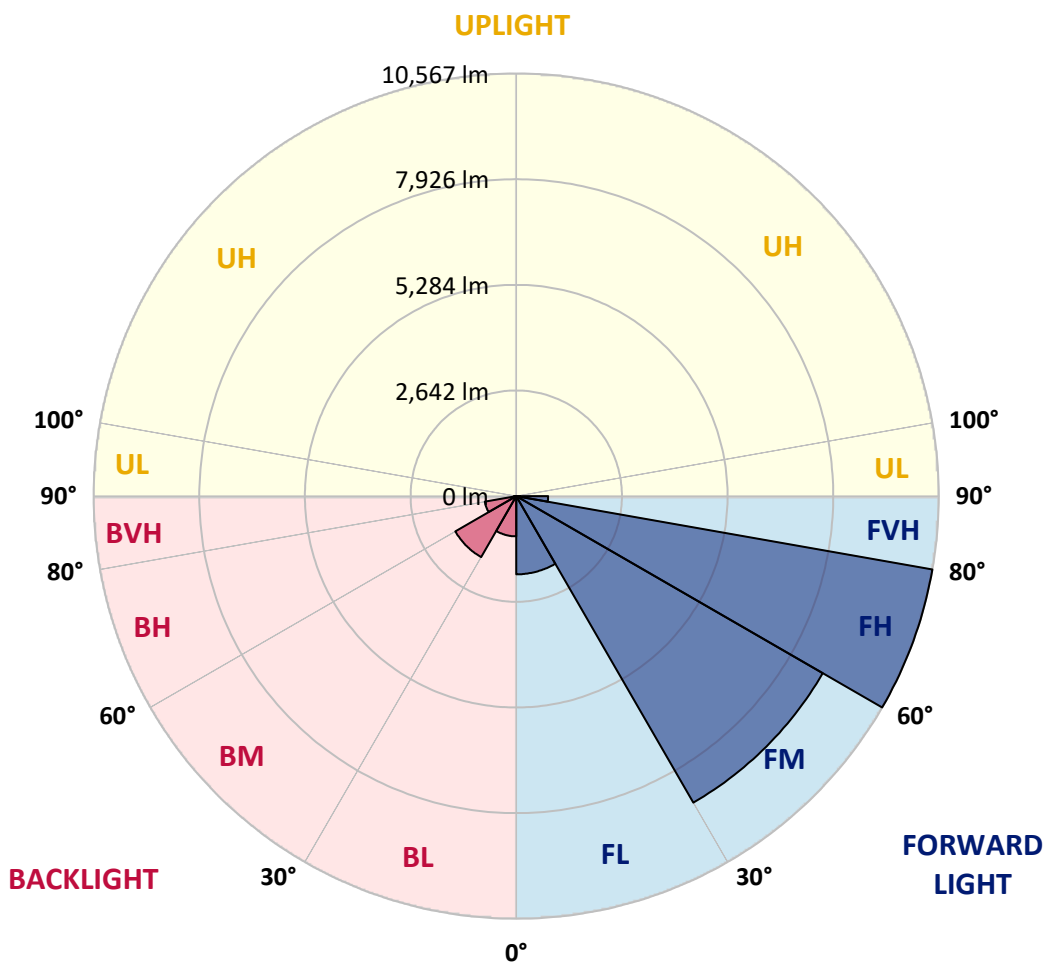
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1954.7	7.6			
FM (30°-60°)	8849.6	34.3			
FH (60°-80°)	10567.5	41.0			G4/12000
FVH (80°-90°)	797.7	3.1			G5
BL (0°-30°)	1005.6	3.9	B3/2500		
BM (30°-60°)	1759.9	6.8	B2/2500		
BH (60°-80°)	797.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	63.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8
2.5°	4701.5	4652.4	4661.1	4643.7	4661.1	4655.3	4646.6	4603.3	4646.6	4603.3	4591.8
5°	4638.0	4638.0	4666.8	4623.5	4629.3	4600.5	4629.3	4597.6	4568.7	4496.6	4476.3
7.5°	4617.8	4614.9	4617.8	4557.2	4586.0	4568.7	4539.8	4505.2	4447.5	4401.3	4334.9
10°	4479.2	4508.1	4476.3	4493.7	4516.8	4464.8	4461.9	4453.3	4427.3	4366.7	4326.3
12.5°	4404.2	4453.3	4470.6	4456.1	4476.3	4482.1	4464.8	4453.3	4421.5	4381.1	4265.7
15°	4435.9	4378.2	4427.3	4522.5	4502.3	4516.8	4519.6	4508.1	4493.7	4418.6	4343.6
17.5°	4444.6	4410.0	4513.9	4534.1	4560.0	4612.0	4577.4	4574.5	4519.6	4467.7	4358.0
20°	4464.8	4450.4	4534.1	4640.9	4643.7	4652.4	4669.7	4626.4	4597.6	4508.1	4340.7
22.5°	4539.8	4588.9	4666.8	4713.0	4739.0	4744.8	4744.8	4658.2	4626.4	4554.3	4421.5
25°	4765.0	4713.0	4822.7	4877.5	4840.0	4831.3	4811.1	4733.2	4698.6	4635.1	4459.0
27.5°	4929.5	4926.6	4990.1	5065.1	4964.1	4984.3	4912.2	4889.1	4811.1	4776.5	4525.4
30°	5154.6	5218.1	5215.2	5238.3	5105.5	5128.6	5036.3	4993.0	4949.7	4969.9	4721.7
32.5°	5443.2	5420.1	5457.6	5440.3	5307.5	5327.8	5218.1	5151.7	5166.1	5226.7	4990.1
35°	5627.9	5604.8	5619.2	5619.2	5578.8	5555.8	5509.6	5423.0	5492.3	5604.8	5290.2
37.5°	5827.0	5855.9	5939.6	5922.3	5870.3	5870.3	5864.6	5804.0	5893.4	6170.5	5769.3
40°	6003.1	6081.0	6133.0	6167.6	6228.2	6228.2	6277.3	6242.6	6404.3	6848.7	6355.2
42.5°	6187.8	6190.7	6473.5	6499.5	6635.2	6692.9	6730.4	6759.3	7062.3	7558.7	6981.5
45°	6424.5	6438.9	6687.1	6886.2	7096.9	7117.1	7258.6	7353.8	7726.1	8335.1	7662.6
47.5°	6736.2	6718.9	6984.4	7301.8	7564.5	7703.0	7873.3	7977.2	8436.1	9177.8	8407.2
50°	7146.0	7094.0	7247.0	7746.3	8055.1	8208.1	8511.1	8684.3	9221.1	9983.0	8918.1
52.5°	7645.3	7558.7	7679.9	8225.4	8571.7	8880.5	9169.2	9362.5	9922.4	10606.4	9296.1
55°	8173.5	7994.5	8029.1	8733.4	9232.7	9524.1	9919.5	10121.6	10693.0	11166.3	9674.2
57.5°	8695.8	8583.3	8514.0	9221.1	10020.6	10300.5	10664.2	10926.8	11411.7	11662.8	9994.6
60°	9134.5	9105.7	8993.1	9977.3	10854.6	11094.2	11475.2	11636.8	12003.3	12121.6	10000.4
62.5°	9495.3	9397.2	9576.1	10586.2	11703.2	11974.5	12392.9	12407.4	12667.1	12407.4	9706.0
65°	9778.1	9783.9	10069.6	11322.2	12684.4	13085.6	13423.3	13385.8	13218.4	12237.1	9010.4
67.5°	10035.0	10144.7	10563.1	12130.3	13945.7	14323.7	14698.9	14202.5	13368.4	11440.5	7651.1
70°	10237.0	10346.7	11229.8	13114.5	15432.0	15986.1	16069.8	14525.8	12678.7	9691.5	5772.2
72.5°	10213.9	10413.1	11607.9	13899.5	16751.0	17230.0	16554.7	13616.6	10563.1	6756.4	3368.1
73°	10263.0	10361.1	11576.2	14118.8	17152.1	17391.7	16329.6	13330.9	9962.8	6060.8	2848.6
75°	9316.3	9648.3	11001.8	13761.0	16722.1	16678.8	15036.6	11108.6	7082.5	3183.4	1379.6
77.5°	6892.0	7102.7	8669.9	11316.4	13726.3	13449.3	11342.4	7099.8	3362.3	1180.4	744.6
80°	3368.1	3532.6	4594.7	6534.1	8975.8	8998.9	7039.2	3694.2	1440.2	666.7	508.0
82.5°	1682.6	1780.7	2207.9	2871.7	4415.7	4626.4	3570.1	2101.1	891.8	378.1	288.6
85°	1099.6	1168.9	1359.4	1405.5	1873.1	1977.0	1662.4	1639.3	580.1	204.9	233.8
87.5°	730.2	741.7	834.1	710.0	750.4	721.5	802.3	1033.2	170.3	86.6	63.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8	4591.8
2.5°	4577.4	4537.0	4493.7	4433.1	4389.8	4323.4	4262.8	4236.8	4231.0	4233.9	4205.1
5°	4459.0	4401.3	4314.7	4190.6	4118.5	4008.8	3916.4	3867.4	3815.4	3824.1	3801.0
7.5°	4294.5	4231.0	4098.3	3954.0	3775.0	3619.2	3532.6	3411.4	3342.1	3290.2	3319.0
10°	4242.6	4132.9	3933.8	3734.6	3457.6	3252.6	3053.5	2915.0	2819.7	2727.4	2767.8
12.5°	4216.6	4106.9	3829.9	3535.5	3177.6	2865.9	2586.0	2415.7	2280.0	2199.2	2231.0
15°	4193.5	4057.9	3731.7	3316.1	2915.0	2505.1	2190.6	1965.4	1835.6	1757.6	1766.3
17.5°	4225.3	4031.9	3587.4	3102.6	2626.4	2187.7	1838.4	1604.7	1471.9	1422.8	1411.3
20°	4193.5	4003.0	3446.0	2889.0	2337.7	1884.6	1549.8	1356.5	1264.1	1223.7	1215.1
22.5°	4205.1	3933.8	3298.8	2652.3	2069.3	1630.6	1356.5	1209.3	1137.1	1116.9	1122.7
25°	4259.9	3893.4	3151.6	2392.6	1803.8	1443.1	1232.4	1119.8	1067.9	1047.7	1053.4
27.5°	4300.3	3928.0	3018.9	2147.3	1578.7	1275.7	1128.5	1053.4	1018.8	1004.4	1001.5
30°	4401.3	3948.2	2889.0	1927.9	1394.0	1166.0	1056.3	995.7	972.6	964.0	961.1
32.5°	4551.4	3985.7	2738.9	1725.9	1258.3	1062.1	998.6	946.6	940.9	932.2	935.1
35°	4796.7	4115.6	2571.5	1552.7	1128.5	992.8	938.0	903.4	903.4	903.4	912.0
37.5°	5148.8	4297.4	2421.4	1388.2	1044.8	932.2	886.0	874.5	868.7	877.4	883.1
40°	5601.9	4516.8	2300.2	1258.3	972.6	891.8	851.4	845.6	842.7	839.9	845.6
42.5°	6098.3	4796.7	2196.3	1157.3	920.7	848.5	819.7	813.9	802.3	808.1	816.8
45°	6591.9	5143.0	2104.0	1076.5	886.0	825.4	785.0	782.1	776.4	773.5	787.9
47.5°	7140.2	5483.6	2075.1	1027.5	860.1	790.8	761.9	759.0	741.7	738.8	750.4
50°	7567.4	5734.7	2106.9	1004.4	822.5	764.8	744.6	730.2	715.8	701.3	701.3
52.5°	7861.8	5907.9	2129.9	987.0	802.3	730.2	704.2	698.4	684.0	669.6	663.8
55°	8127.3	6011.8	2135.7	989.9	782.1	689.8	672.5	669.6	660.9	637.8	632.1
57.5°	8216.7	5968.5	2020.3	964.0	770.6	663.8	640.7	646.5	634.9	614.7	611.9
60°	8208.1	5668.3	1757.6	929.3	744.6	634.9	606.1	623.4	623.4	600.3	597.4
62.5°	7708.8	4975.6	1437.3	862.9	715.8	606.1	574.3	600.3	609.0	594.5	591.7
65°	6672.7	4052.1	1200.6	796.6	672.5	574.3	542.6	571.4	585.9	580.1	577.2
67.5°	5521.1	3099.7	998.6	710.0	617.6	531.0	505.1	525.3	533.9	536.8	539.7
70°	3902.0	2063.6	834.1	614.7	542.6	484.9	456.0	458.9	456.0	464.7	464.7
72.5°	2121.3	1189.1	678.2	522.4	467.5	421.4	401.2	386.7	386.7	383.9	383.9
73°	1815.4	1067.9	646.5	508.0	447.3	409.8	386.7	375.2	375.2	372.3	369.4
75°	1018.8	782.1	554.1	435.8	386.7	357.9	340.6	323.2	320.4	320.4	320.4
77.5°	669.6	609.0	441.6	349.2	311.7	285.7	280.0	262.6	262.6	262.6	259.7
80°	502.2	479.1	340.6	265.5	239.5	219.3	213.6	202.0	199.1	187.6	190.5
82.5°	334.8	378.1	248.2	187.6	161.6	150.1	150.1	147.2	138.5	124.1	124.1
85°	265.5	308.8	178.9	115.4	95.2	80.8	83.7	80.8	77.9	63.5	60.6
87.5°	49.1	124.1	51.9	31.7	23.1	14.4	14.4	8.7	5.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)